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# LETTERS

## NEW CANCERS ON EMERGENCY ADMISSION

# Care is needed in epidemiological research not to overgeneralise about cancer diagnosis and treatment

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We agree with McCartney's suggestion that researchers must be cautious about how they report their findings in papers for publication and in their contacts with the media.<sup>1</sup>

The limitations of secondary uses of data in research, including potential incompleteness, poor accuracy, and missing clinical data of value to research, have been well established and discussed. In our paper that McCartney cited, we showed that estimates of cancer diagnosed by emergency admission depend on the data used and the care settings from which the data were collected.<sup>2,3</sup> Open access data sharing, such as the Open Exeter system, is increasingly common in healthcare and other sectors.<sup>4,5</sup> One benefit of the prime minister's drive for "transparency and open data" is the potential uses of linked data in research to improve our understanding of patient pathways to care.<sup>5</sup> For investigating the appropriateness and timing of cancer diagnoses, data sources such as hospital episode statistics, Clinical Practice Research Datalink, the health improvement network database, cancer audit data, and cancer registries can be linked to examine patients' health seeking behaviours and the interactions between patients and GPs before diagnosis.

GP activity may appropriately differ by the type of suspected cancer, the age of the patient, and presenting symptoms. We must be careful in epidemiological research not to overgeneralise

about cancer diagnosis and treatment. Symptoms, disease progression, prognoses, and patient outcomes vary by cancer type. Research should further examine what information GPs and other clinicians would find most useful to support timely diagnosis of cancer and how best to incorporate these data into clinical practice. There must also be a focus on resolving preventable delays caused by the patient, clinician, and health provider.

Competing interests: None declared.

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- 5 Cameron, D. Letter to cabinet ministers on transparency and open data. 2011. <https://www.gov.uk/government/news/letter-to-cabinet-ministers-on-transparency-and-open-data>.

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